What Is Claimed Is:

- An electrical device having a generator, particularly for use in the vehicle electrical system of a motor vehicle, having a controller for controlling the generator voltage, wherein areas for the controlling are provided in which a
 - wherein areas for the controlling are provided in which a voltage control (area 30) is carried out and areas (31,32) in which a torque control is carried out.
- The electrical device as recited in Claim 1, wherein the transition between the areas (30,31,32) and/or the width of the areas (30,31,32) are a function of operating characteristics variables of the device.
- 3. The electrical device as recited in one of the preceding claims, wherein the area (30) for the voltage control extends in a specifiable distance about the setpoint voltage (U Soll).
- 4. The electrical device as recited in one of the preceding claims, wherein the area (30) is a function of a specifiable torque (excess torque M_Überschuss).
- 5. The electrical device as recited in one of the preceding claims,
 wherein the areas (31,32) for torque control extend on both sides of the area (30) for the voltage control.
- 6. The electrical device as recited in one of the preceding claims, wherein the areas (31,32) for the torque control lie within a voltage range that is limited by the voltage boundary values (U_H, U_L).

- 7. The electrical device as recited in one of the preceding claims,
 - wherein the torque (M) is variable in an area (31,32) for the torque control according to a linear function.
- 8. The electrical device as recited in one of the preceding claims,
 - wherein the torque (M) is variable in an area (31,32) for the torque control according to a function F=F(T, P) that may be specified as desired, T being the time and P being an operating parameter of the device.
- 9. The electrical device as recited in one of the preceding claims, wherein the torque (M) is variable in an area (31,32) for the torque control according to a functional dependence

established in a characteristics map (K).

10. A method for the operation of an electrical device that includes a generator (12) having a controller (12B), especially in connection with a vehicle electrical system (13) of a motor vehicle, wherein the voltage of the vehicle electrical system (13) and the generator voltage (U_Gen) is recorded; a check is made as to whether the recorded voltage lies in a specifiable area about the setpoint voltage (U_Soll); a voltage control is performed to the setpoint voltage (U_Soll) if the recorded voltage lies in the specifiable range about the setpoint voltage (U_Soll); a control of the torque (M) is carried out if the recorded voltage lies outside the specifiable range about the setpoint voltage, but still within a voltage range established by the voltage boundary values (U_H, U_L); and a highest

priority for the voltage control is specified if the

- recorded voltage lies outside the voltage range limited by the voltage boundary values (U_H, U_L) .
- 11. The method as recited in Claim 10, wherein, in the control of the torque (M), the torque is changed according to a linear function.
- 12. The method as recited in Claim 10, wherein, in the control of the torque (M), the torque is changed according to a desired function F=F(T, P), where T is the time and P is a specifiable operating parameter of the device.
- 13. The method as recited in Claim 10, wherein, in the control of the torque (M), the torque is changed according to a functional dependence established in a characteristics map (K).
- 14. The method as recited in one of Claims 10 through 13, wherein the width of the areas (30, 31,32), in which a voltage control or a torque control is carried out and/or the transition locations between these named areas, are fixedly specified during the application of the device.
- 15. The method as recited in one of Claims 10 through 13, wherein the width of the areas (30, 31,32) in which a voltage control or a torque control is carried out and/or the transition locations between these named areas are adjusted to the operating parameters of the device during the driving operation of the vehicle equipped with the device.